Table 2. Appendix E. Environmental Resource Table
Dane County Electric Reliability Initiative
North Madison - Huiskamp 138-kV Transmission Project

Feature ID [1]	Feature Type	Resource Description, Name, & Designation (if applicable) [2]	Approx. Wetland Crossing Length (feet) [3]	Field Surveyed? [4]	Includes Existing Structures [5]	Proposed Permanent Structures [6]	Impact Justification / Alternatives Analysis	Changes to Corridor [7]	Temp Wetland / Stream Crossing Method [8]	Map Page Index	Comments [9, 10]	Agency Comment
PREFERRED ROUTE												
North Madison Substation												
WIBU Road												
CTH V												
Norway Grove School Road												
W-P1 / S-P1	Wetland and Intermittent Stream	Degraded wet meadow with intermittent stream. Dominant plant species observed were: reed canary grass, barnyard grass, climbing nightshade, and field sowthistle. Secondary plant species observed were Philadelphia flea-bane and stinging nettle.	20'	D, C	No	No	Avoided	45	CT-4	13a, page 3	Approximately four-foot stream crossing, silt loam / silty clay loam soils, gradual bank slope, herbaceous vegetation. Wire pull access on both sides from road.	
Daley Road												
Cuba Valley Road												
Easy Street												
STH 19												
Arboretum Drive												
W-P3 / S-P3	Wetland and Intermittent Stream	Degraded shallow marsh with intermittent stream. The wetland was dominated by reed canary grass. Secondary plant species observed were field sowthistle, green bullrush, broad-leaf cattail, and an undetermined sedge species.	270'	D, C	Yes - Distribution Line	Yes - One Tangent Pole	Cannot be avoided - span length requirements.	45'	CT-2/3	13a, page 9 & 10	Approximately four-foot drain crossing, silt loam / silty clay loam soils, gradual bank slope, herbaceous vegetation. Distribution line runs across east edge of wetland. Drain does not appear navigable.	
Kennedy Drive												
W-P4 / S-P4	Wetland and Intermittent Stream	Degraded wet meadow with intermittent stream. Dominant plant species observed were reed canary grass and sandbar willow. Secondary plants observed included peachleaf willow, broad-leaf cattail, greeen bulrush, cottonwood, boxelder, wild black currant, tall goldenrod, riverbank grape, red-osier dogwood, and water smartweed.	260' along wetland edge; 60' across drain with wetland fringe	D, C	Yes - Distribution Line	Yes - One Tangent Pole	Cannot be avoided - span length requirements.	80'	CT-2/3, TCSB	13 a, page 10	Approximately six-foot drain crossing, silt loam / silty clay loam soils, gradual bank slope, herbaceous vegetation. Distribution line runs across east edge of wetland. Drain appears navigable.	
W-P5 / S-P5	Wetland and Stream	Shallow Marsh / Shrub-carr with stream. Dominant plant species observed were reed canary grass, spotted touch-me-not, one-seed bur cucumber, narrow-leaf cattail, and peach-leaf willow. Secondary plant species observed were red-osier dogwood, calico aster, sandbar willow, wild black currant, and water smartweed.	825'	D, C	No	Yes - Two Tangent Poles	Cannot be avoided - span length requirements.	45'	CT-2/3, TCSB	13 a, page 10	Stream crossing approximately 12 feet, mucky soils, gradual bank slope at stream - steep rocky bank along road, herbaceous and woody vegetation. Stream appears navigable.	
Huiskamp Substation												
ALTERNATE ROUTE												
North Madison Substation												
CTH V												
W-A1 / O-A1	Wetland with Open Water	Shallow Marsh with Open Water Area. Dominant species observed were reed canary grass, narrow-leaf cattail, and water smartweed. Climbing nightshade was also observed.	580'	D, C	No	Yes - One Tangent Pole	Cannot be avoided - span length requirements.	45'	CT-2/3	13b, page 2	Considered sensitive because it is connected to the USFWS preserve to the west and provides similar habitat. Edge of road ROW gradual slope and vegetated with herbaceous species.	
Norway Grove School Road												
Lovick Road												
Daley Road												
Cuba Valley Road												
Schumacher Road												
Easy Street												
W-A3	Wetland	Degraded wet meadow created in low spot associated with road drainage. The wetland was dominated by reed canary grass, water smartweed, and field sowthistle. Secondary plant species observed were narrow-leaf cattail, riverbank grape, climbing nightshade, and stinging nettle.	None	D, C	No	None	Avoided	45	CT-2/3	13b, page 7	Centerline would run just to west of wetland.	
STH 19												
W-A8 / S-A1 / O-A3	Wetland, Intermittent Stream, Open Water	Degraded wet meadow associated with drainage ditch and stormwater pond. The wetland area was outside the existing public ROW and no detailed plant community data was collected.	None	C	No	None	Avoided	45	CT-W4	13b, page 7	Stream approximately 6 feet wide, silt loam / silty clay loam soils, gradual bank slope, herbaceous vegetation.Wetland and water features approximately 15' to west of road easement. Wires can be pulled from road. Stream appears navigable.	
Uniek Drive												
MWSOR Reedsburg Line												

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W-A4 / Six Mile Crk.	Wetland, Stream	Wet meadow in floodplain of Six Mile Creek. The wetland was dominated by reed canary grass, pointed broom sedge, and tall goldenrod. Secondary plant species observed were water horehound, calico aster, green bulrush, red osier dogwood, and wild black currant.	950'	D, C	Yes	Yes - One Tangent Pole	Cannot be avoided - span length requirements.	None - uses existing transmission line easement	CT-2/3, TCSB	13b, page 8	Six Mile Creek approximately 30 feet wide, silt loam / silty clay loam soils, moderate to steep bank slope, herbaceous vegetation. On existing towers, the line would cross the Creek twice. Considered sensitive due to Six Mile Creek.	
Mill Road												
W-A5 / Six Mile Crk. / S-A2 / S-A3 / O-A12	Wetland, Stream	Wet meadow in floodplain of Six Mile Creek, two tributary streams, and one oxbow pond. Dominant species observed were pointed broom sedge, winged loosestrife, fowl meadow grass, water horehound, and boneset. Seconday plant species observed were reed canary grass, stinging nettle, green bulrush, field mint, and purple loosestrife.	2250'	D, C	Yes	Yes - Four Tangent Poles and One Angle Pole	Cannot be avoided - span length requirements.	None - uses existing transmission line easement	CT-2/3, TCSB	13b, page 9	Six Mile Creek approximately 30 feet wide, silt loam / silty clay loam soils, moderate to steep bank slope, herbaceous vegetation. On existing towers, the line would cross the Creek twice and each of the tributaries once. Considered sensitive due to Six Mile Creek.	
Kennedy Drive												
W-A6 / S-A4	Wetland	Degraded wet meadow associated with drain. Dominant plant species observed were reed canary grass, saw-tooth sunflower, and tall goldenrod. Calico aster and red-root amarath were also observed.	80'	D, C	No	None	Avoided	None - uses existing transmission line easement	CT-2/3	13b, page 10	Approximately four-foot drain crossing, silt loam / silty clay loam soils, gradual bank slope, herbaceous vegetation. Drain does not appear navigable.	
W-A7	Wetland	Degraded wet meadow. Dominant plant species observed were reed canary grass, saw-tooth sunflower, and peach-leaf willow. Secondary plant species observed were calico aster, canada goldenrod, and grape woodbine.	None	D, C	No	None	Avoided	None - uses existing transmission line easement	CT-2/3	13b, page 10	Small wetland pocket may have been created during sewer line construction. Space to go around on both east and west sides. Existing tower at north edge of wetland.	
Huiskamp Substation												

COMMENTS:
Table includes those resources intersected by or immeditely adjacent (< 50') to the proposed centerline for each route.

[1] Feature ID: W = wetland, S = river/stream/drain crossing, O = Open Water, P = Preferred Route, A = Alternate Route, # = Feature number.
[2] Resource description based on Wetland plant community types (Eggers and Reed1997) where applicable: shallow open water, deep marsh, shallow marsh, sedge meadow, fresh (wet) meadow, wet to wet-mesic prairie, calcareous fen, open bog, coniferous bog, shrub-carr, alder thicket hardwood swamp, coniferous swamp, floodplain forest (mixed hardwood/coniferous swamp), seasonally flooded basin.
[3] Refers to wetland length along centerline.
[4] Field Surveyed: A=aerial photo inspection (offsite delineation); D=1987 Manual delineation (onsite delineation); C=field-checked aerial photo (offsite and field observations); N=not surveyed
[5] T = transmission structures ; D = distribution structures
[6] Refers to the preliminary worst-case estimate of the number and type of structures to be placed in wetlands
[7] Refers to corridor changes needed for the proposed line: 45 feet needed for new corridor, 5 feet along roads / railroad and no additional ROW along existing transmission and distribution lines.
[8] Wetland / Stream Crossing Method: CT-1 = Typical upland construction procedures; CT-2/3=Typical wetland crossing procedures; CT-4 = No stream crossing with equipment, wire pull only; CT-4W = wire pull through wetland, small tracked vehicle only; TCSB=Temporary Clear Span Bridg
[9] Slope classes for the approaches to proposed TCSB locations (± 50' each side of waterway) were estimated based on field investigation, review of USGS topographic maps, county soil surveys, and/or aerial photography. Gradual≤ 10%; Moderate = 11-30%; Steep > 30%.
Areas deemed unique, sensitive, or of high quality by PSCW, WDNR, and/or the Applicant are highlighted in yellow.
[10] References to appears navigable or does not appear navigable were based on field investigations by Graef, Anhalt, Schloemer and Associates, Inc. "Does not appear navigable" means that background data indicates the presence of an intermittent stream or drainage way, however the field investigation did not identify a stream having bed and banks that could support a canoe or water craft was identified during the field investigation, therefore ATC is not applying for a stream crossing permit at this location